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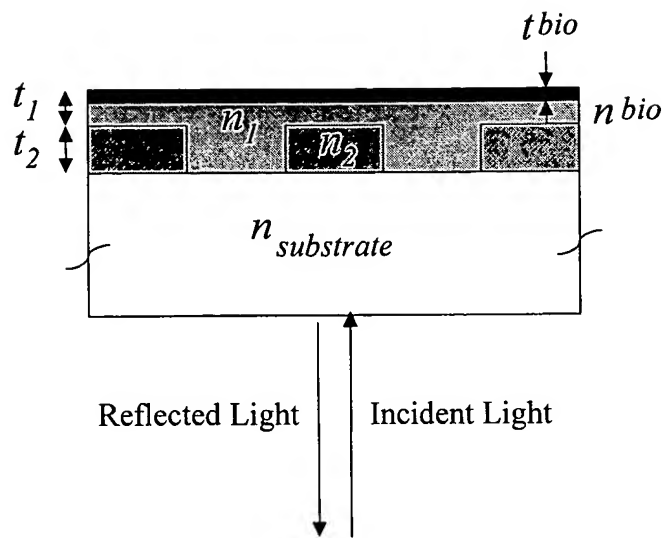


Figure 1A

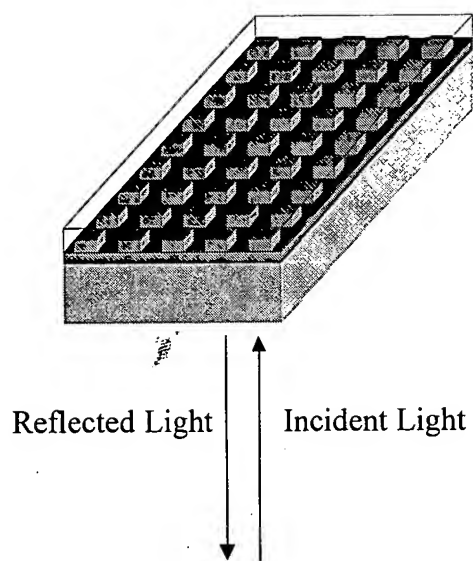


Figure 1B

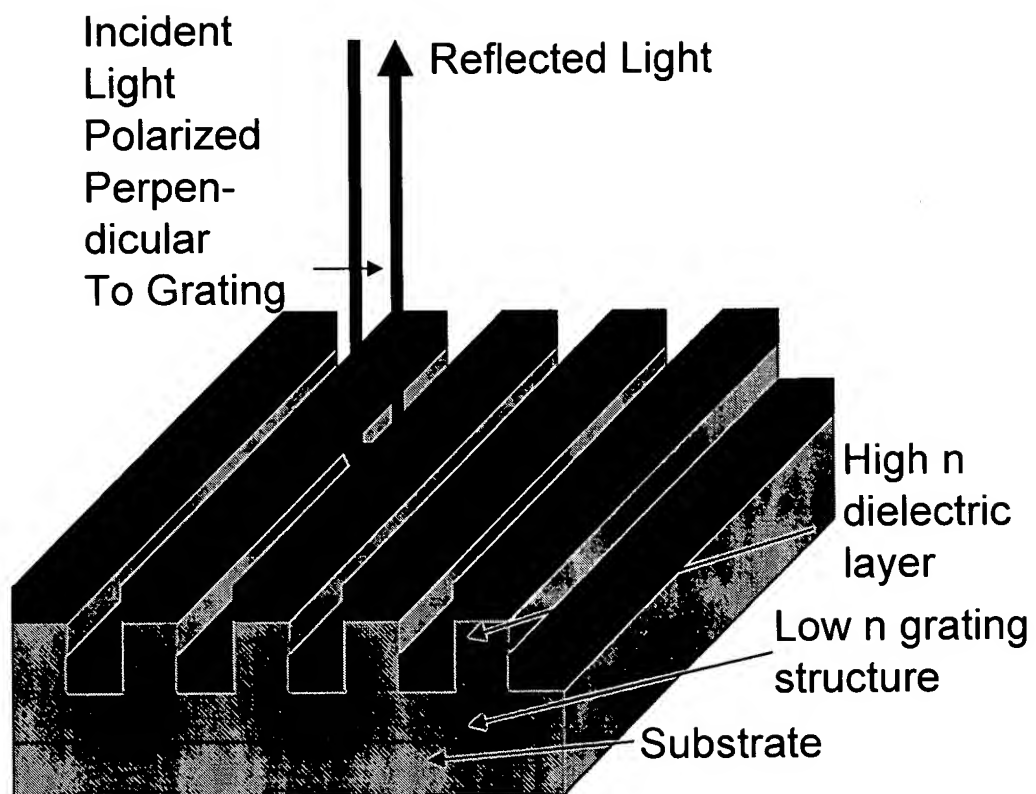


Figure 2

Concentric Circle Design

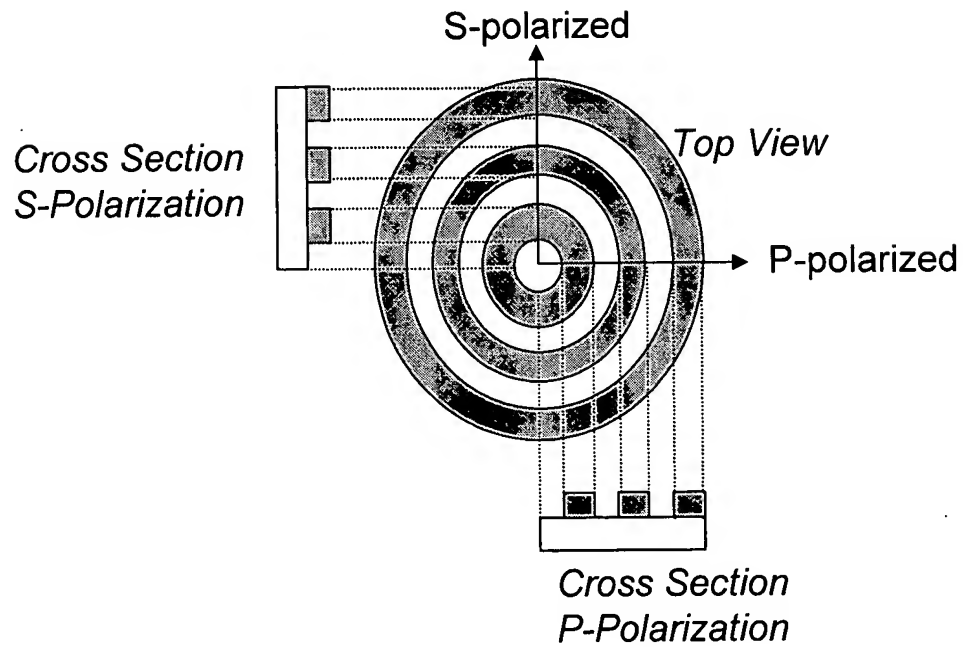


Figure 3

Hexagonal Grid Design

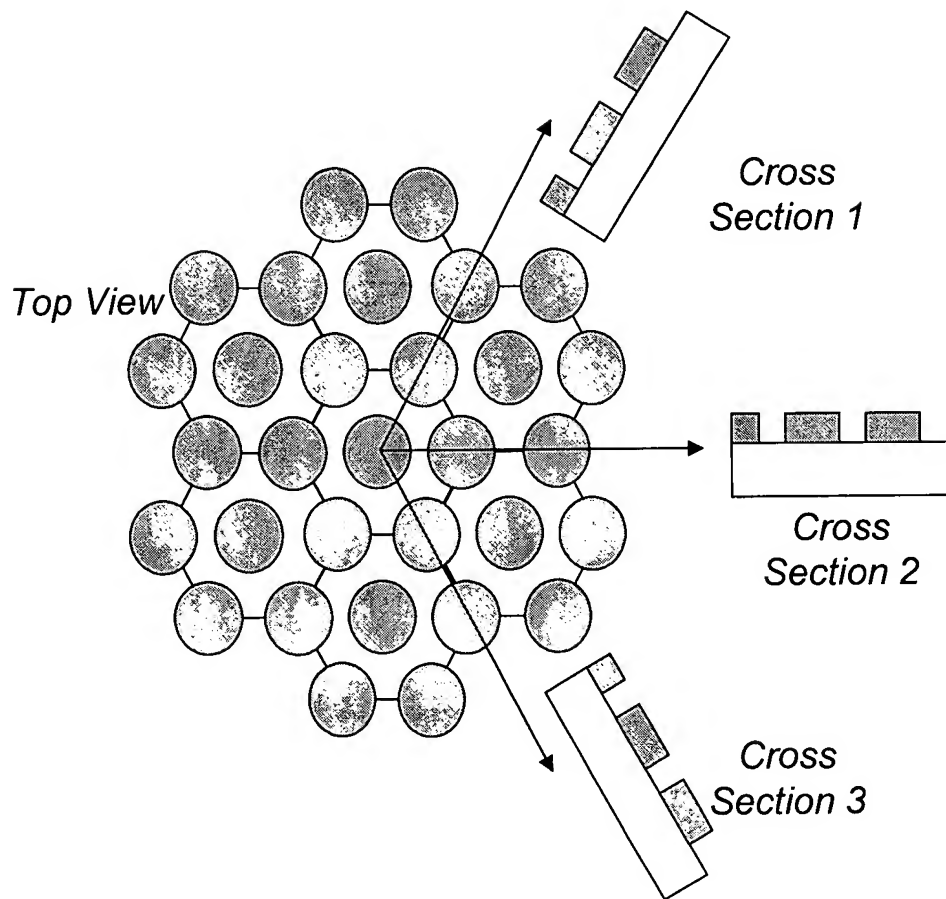


Figure 4

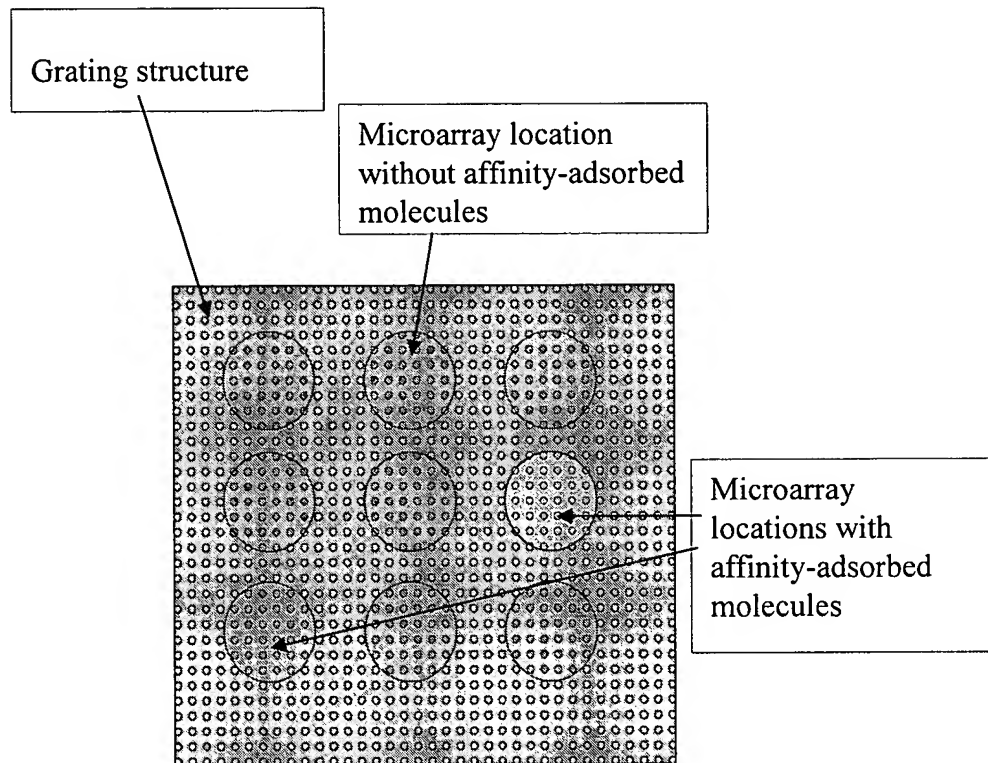


Figure 5

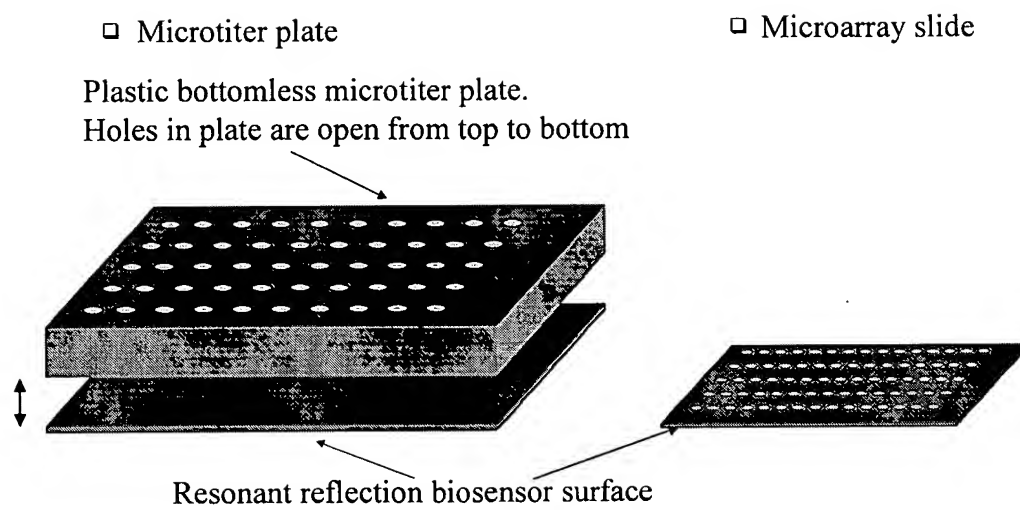


Figure 6A

Figure 6B

Self-referencing Colormetric Resonant Optical Biosensor

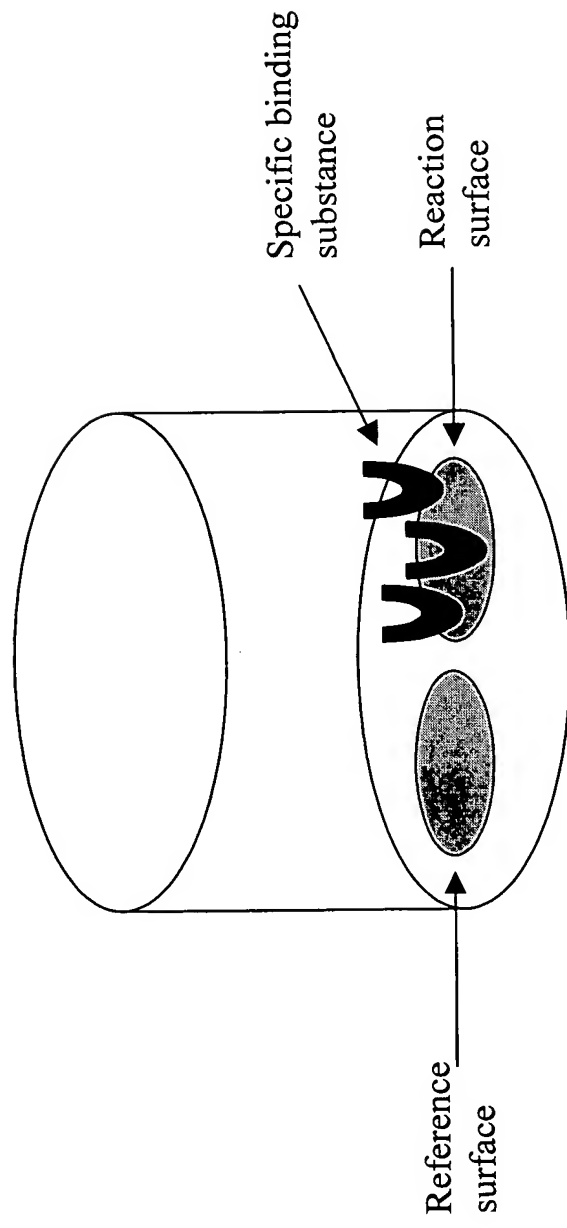


Figure 7A

Self-referencing Colormetric Resonant Optical Biosensor

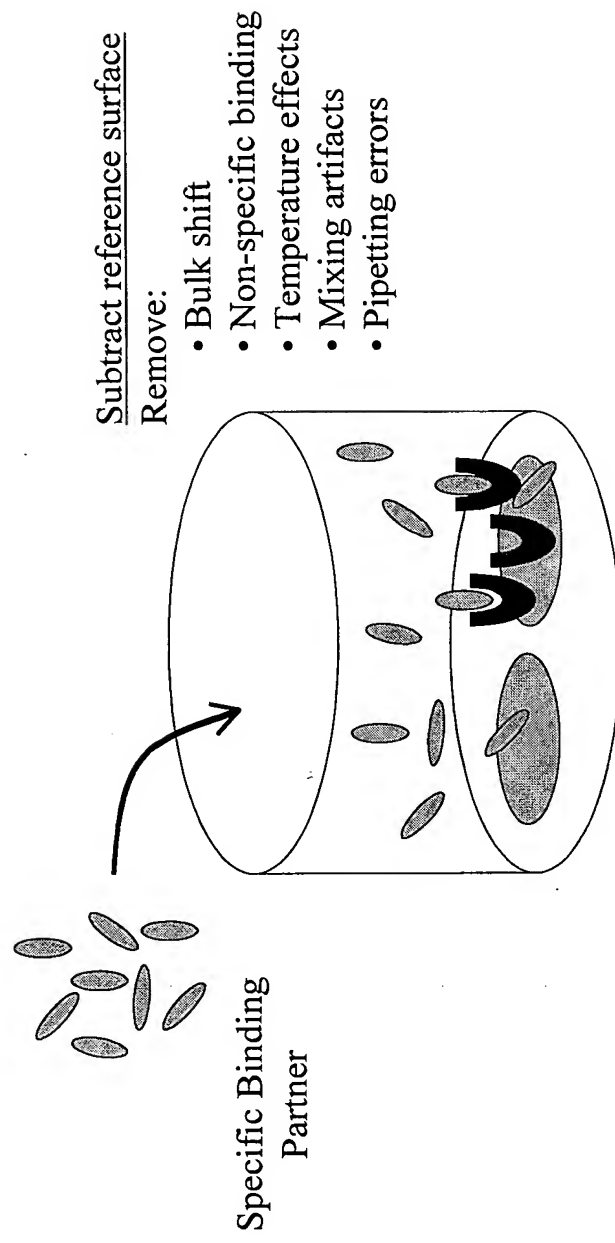


Figure 7B

Liquid holding vessel cross-section including fluid-impermeable divider:

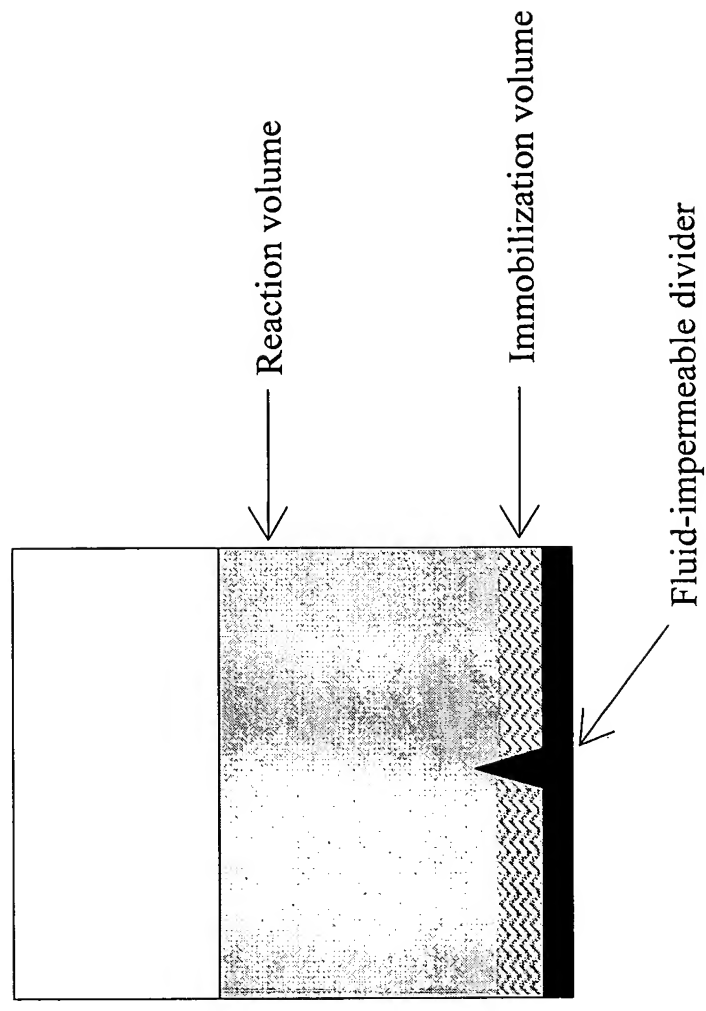


Figure 8

Fluorescence image of controlled biosensor surface pattern

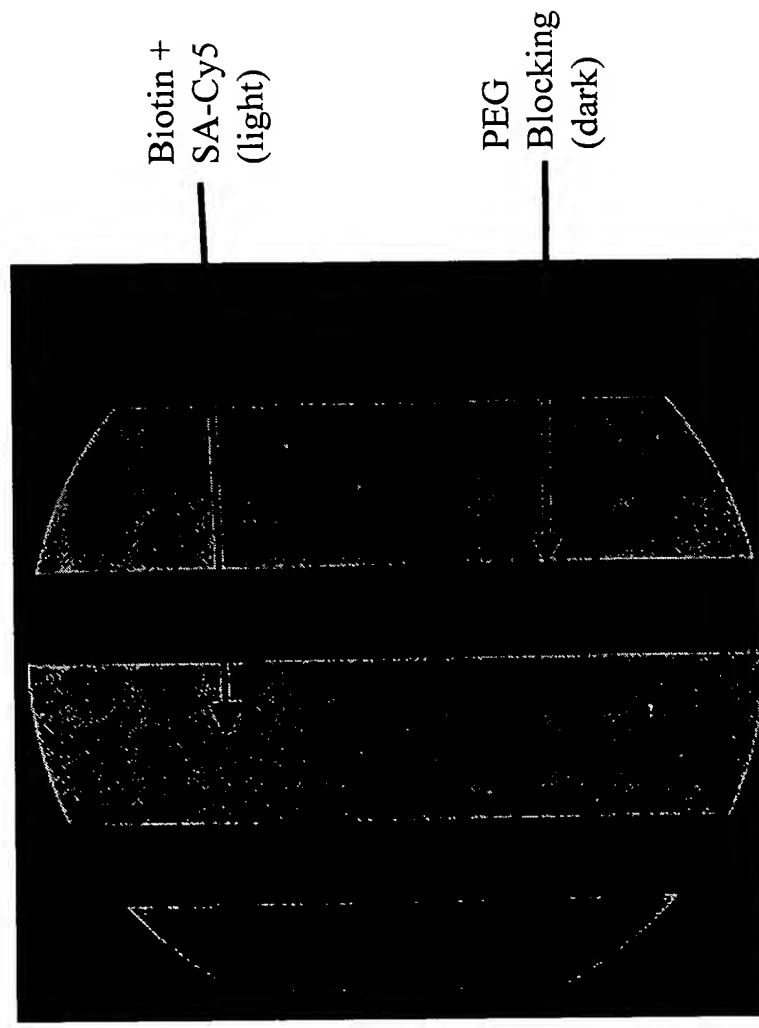


Figure 9A

BIND image of controlled biosensor surface pattern

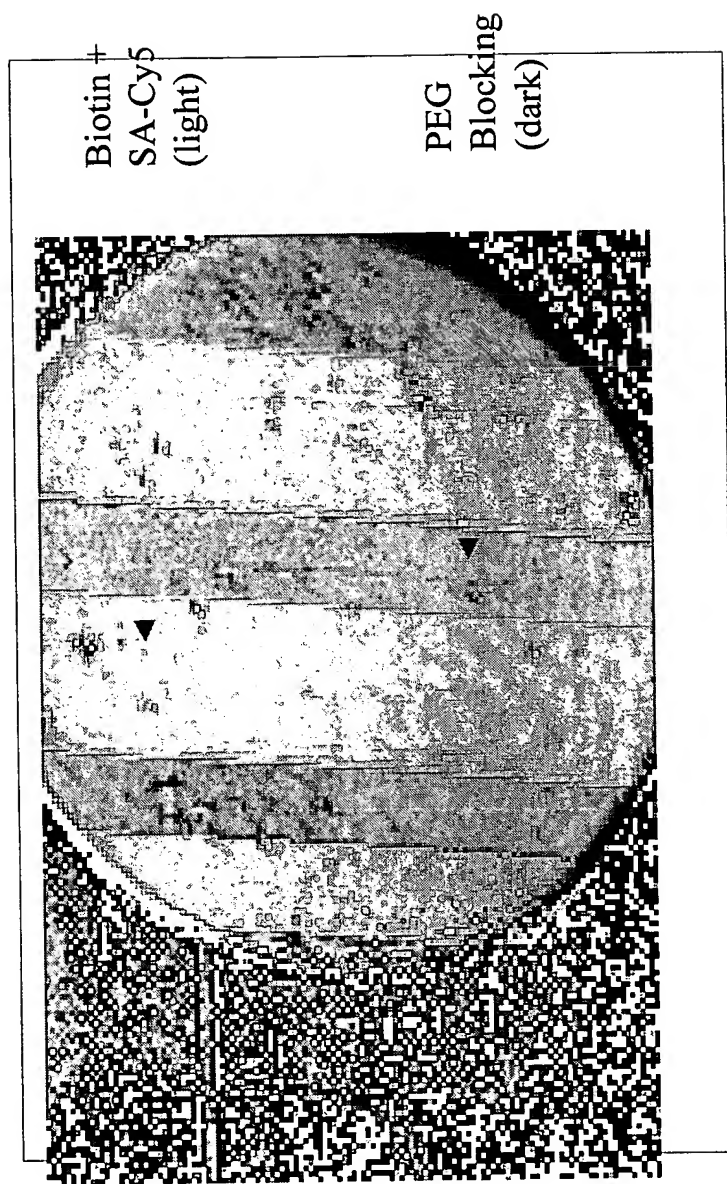


Figure 9B

BIND image of arbitrary biosensor surface pattern

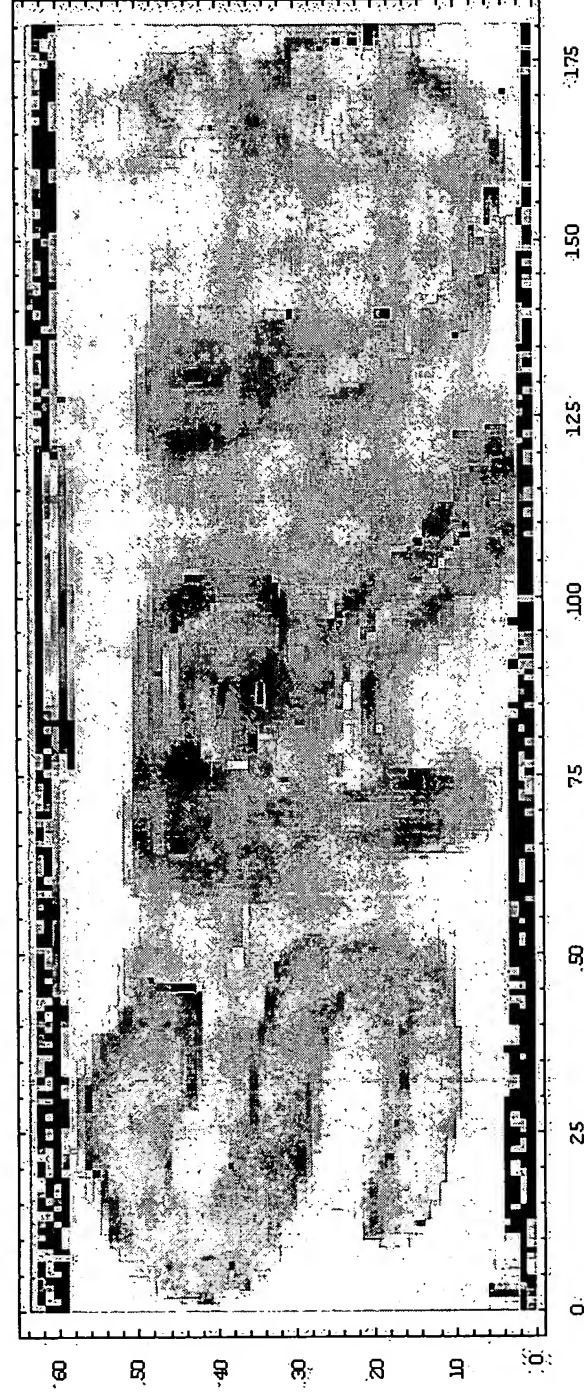


Figure 10

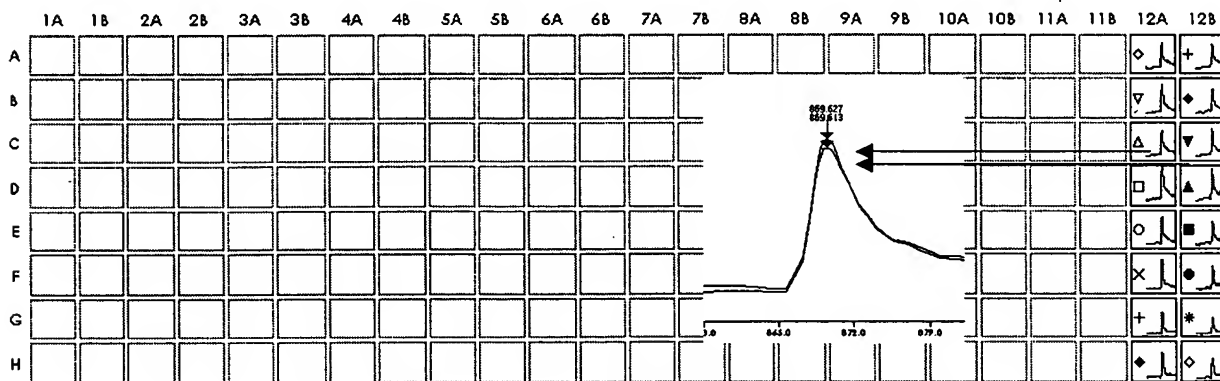
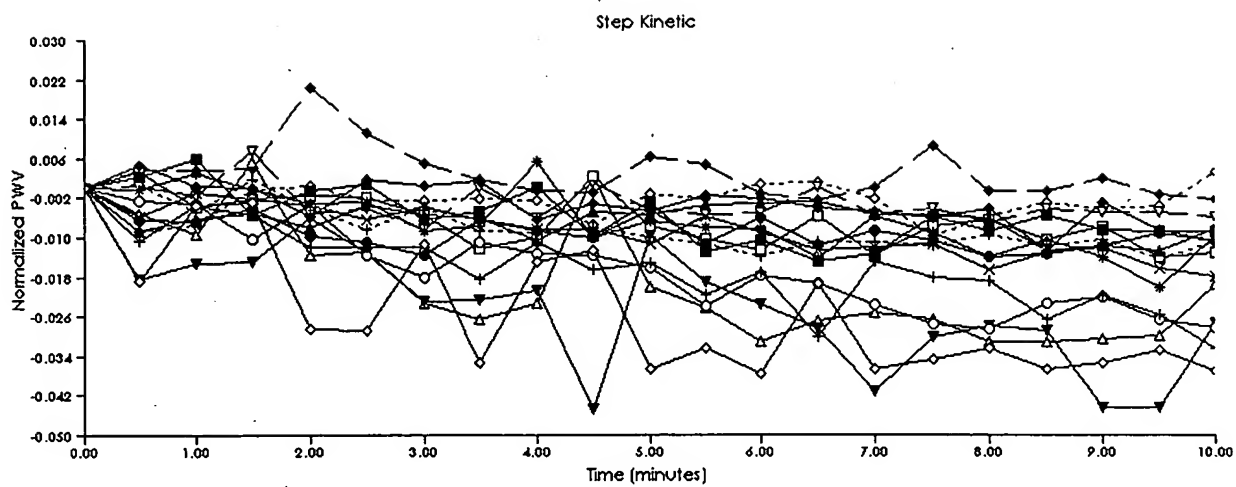


Figure 11

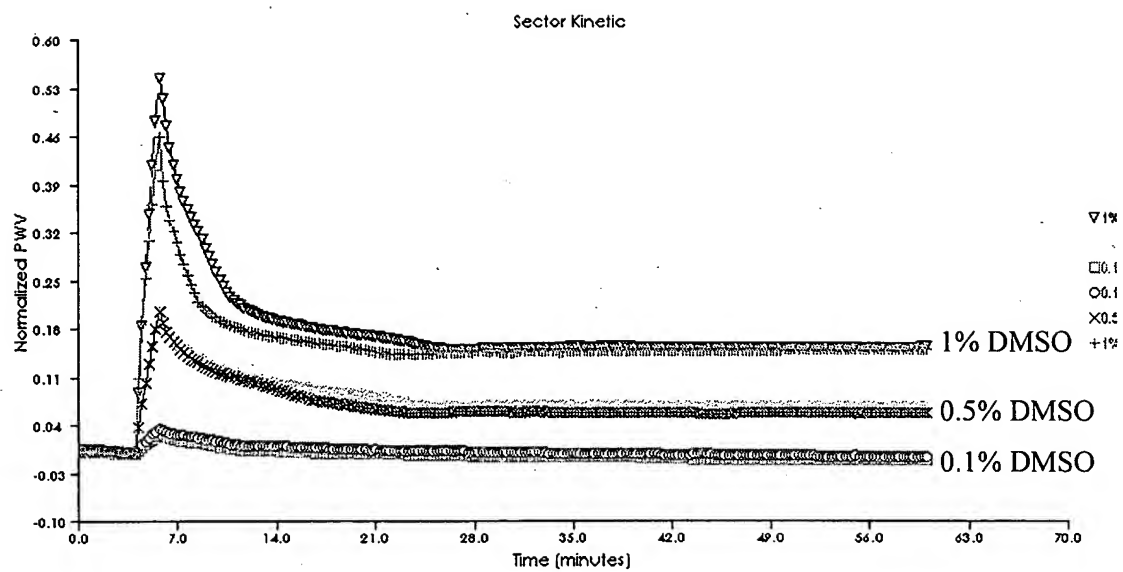
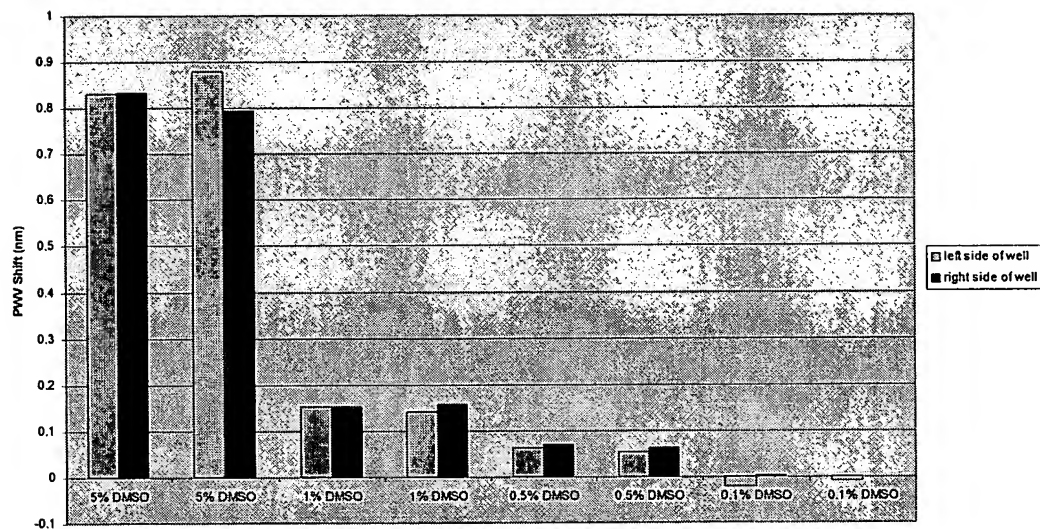


Figure 12

DMSO Concentration Series



[DMSO]	LEFT	RIGHT	Difference
5% DMSO	0.829662	0.83361	-0.00395
1% DMSO	0.153392	0.151825	0.001567
0.5% DMSO	0.063403	0.070467	-0.00706
0.1% DMSO	-0.02184	0.002076	-0.02392
0.1% DMSO	-0.00908	-0.00082	-0.00826
0.5% DMSO	0.054082	0.061701	-0.00762
1% DMSO	0.141943	0.158428	-0.01649
5% DMSO	0.878378	0.792796	0.085582

Figure 13

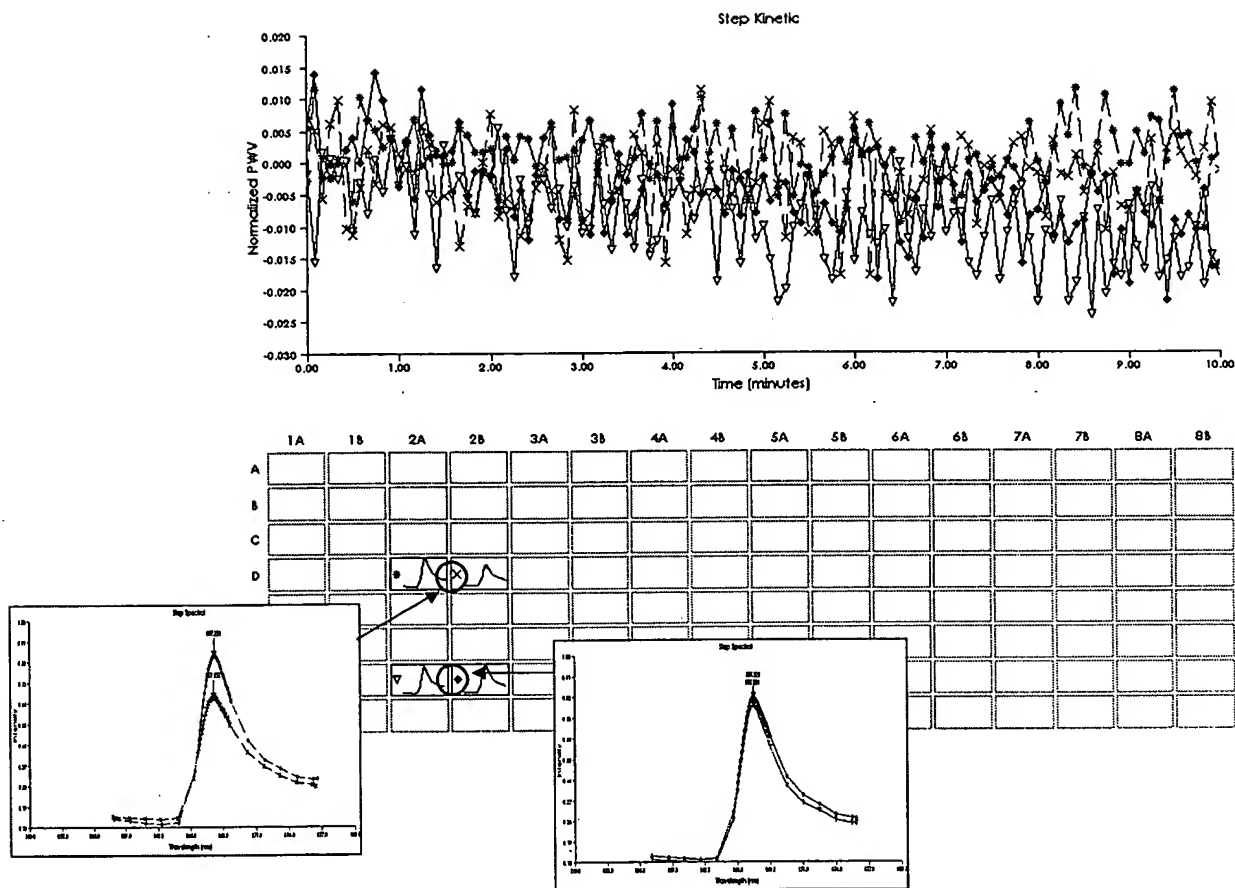


Figure 14

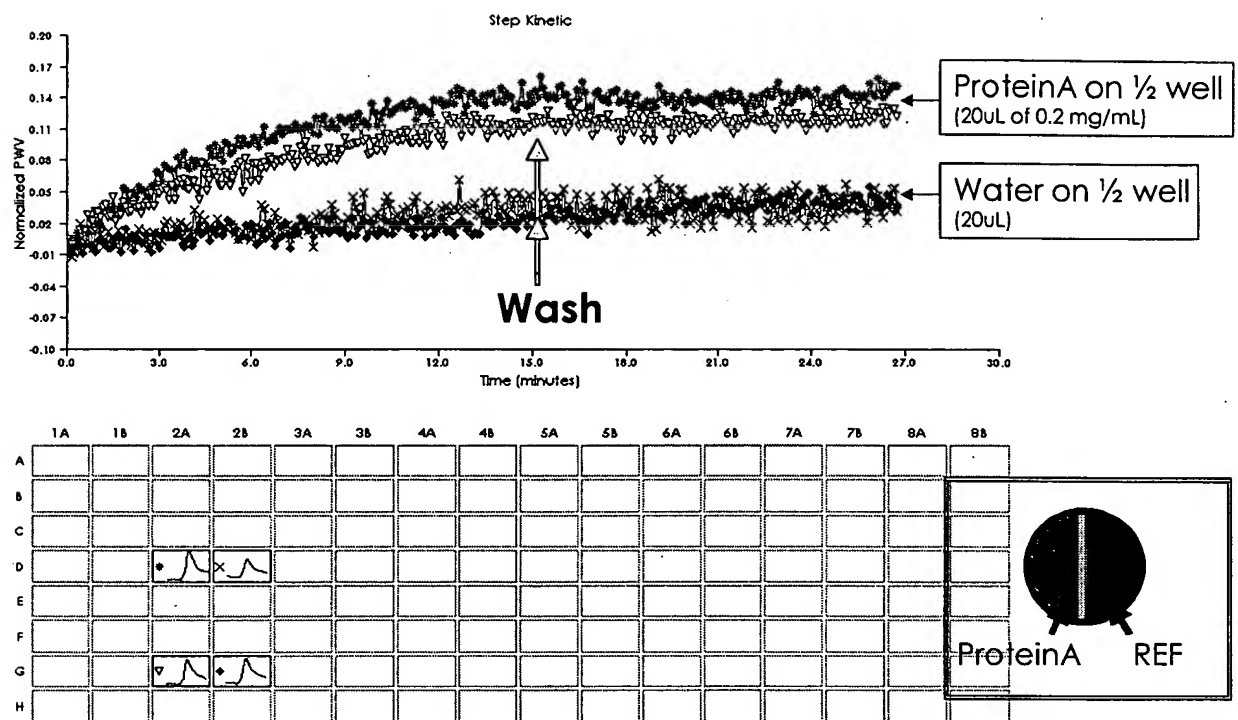


Figure 15

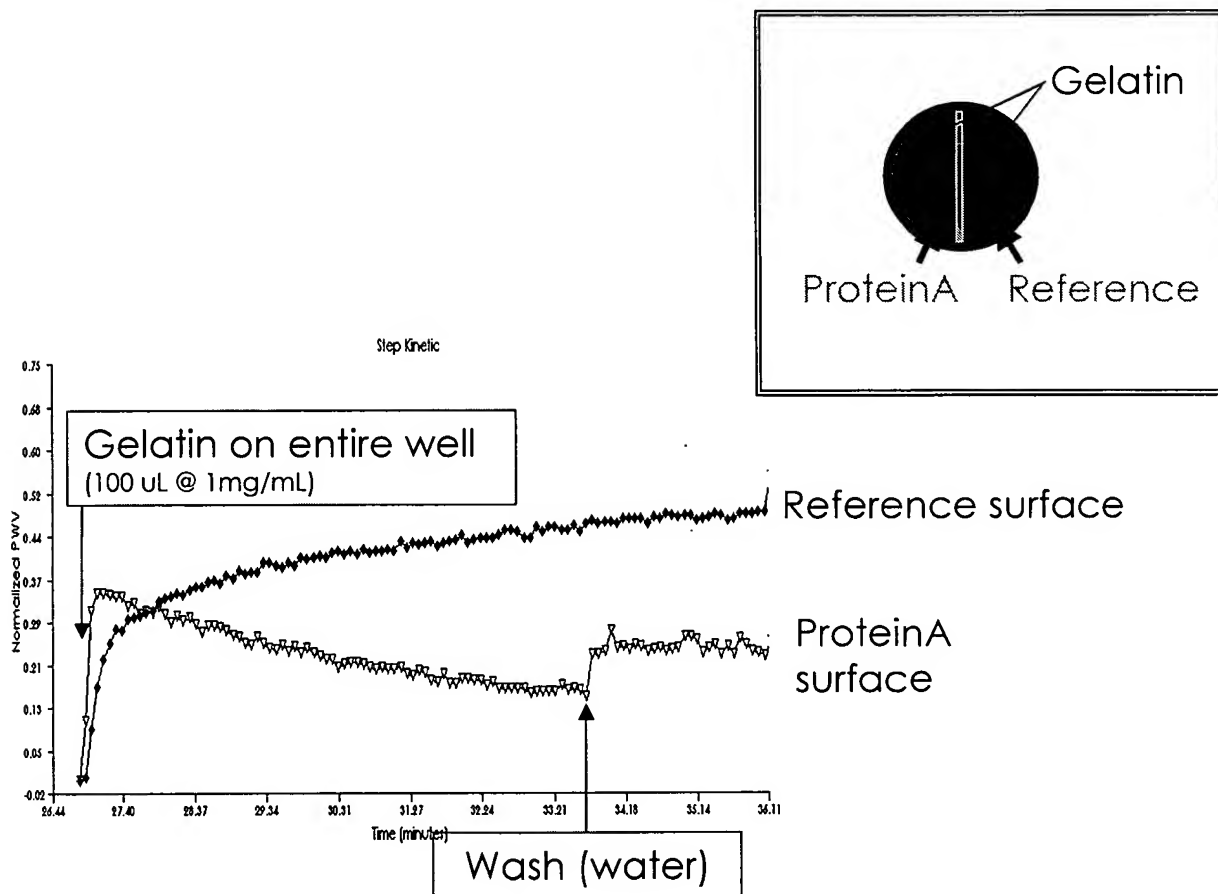


Figure 16

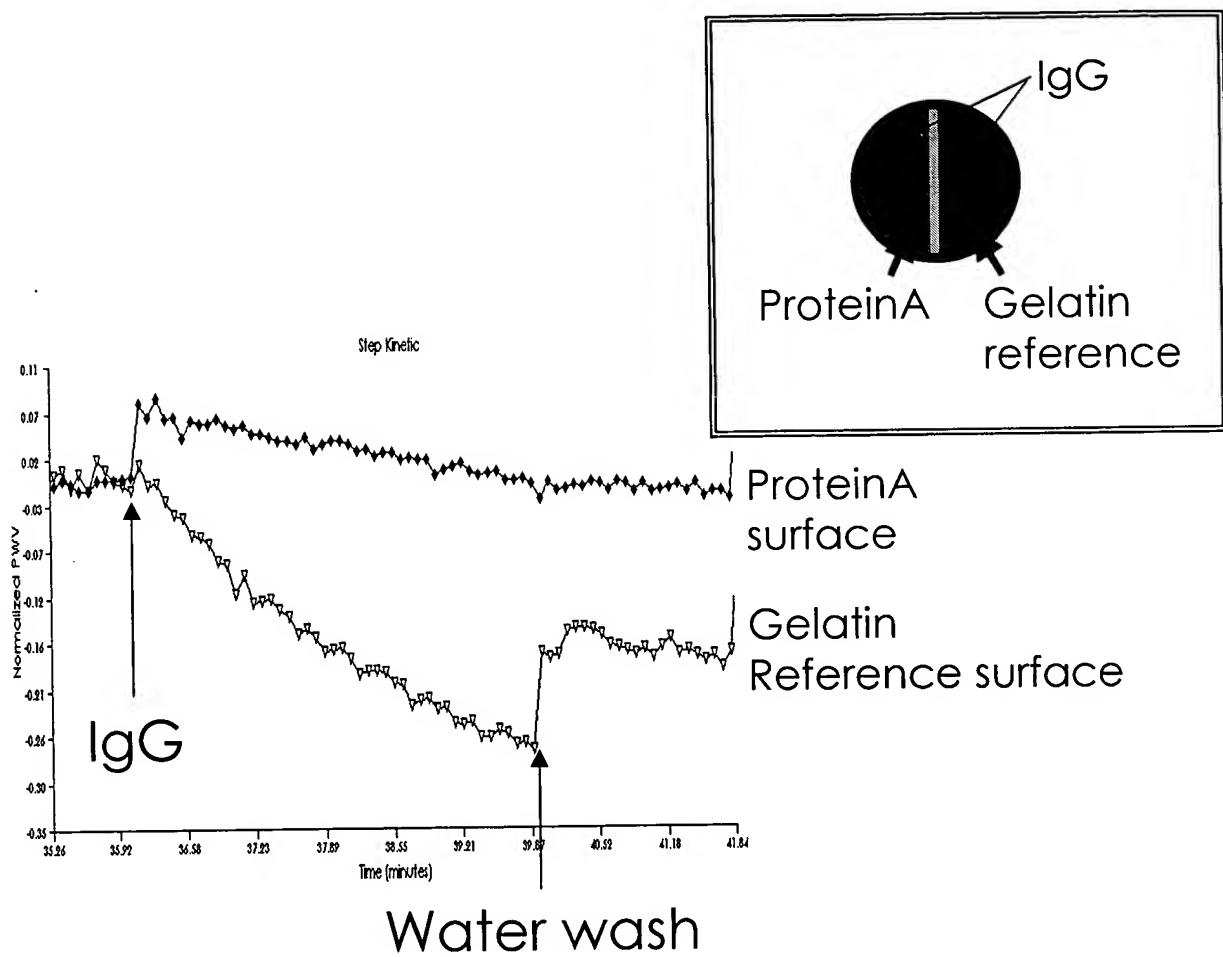


Figure 17

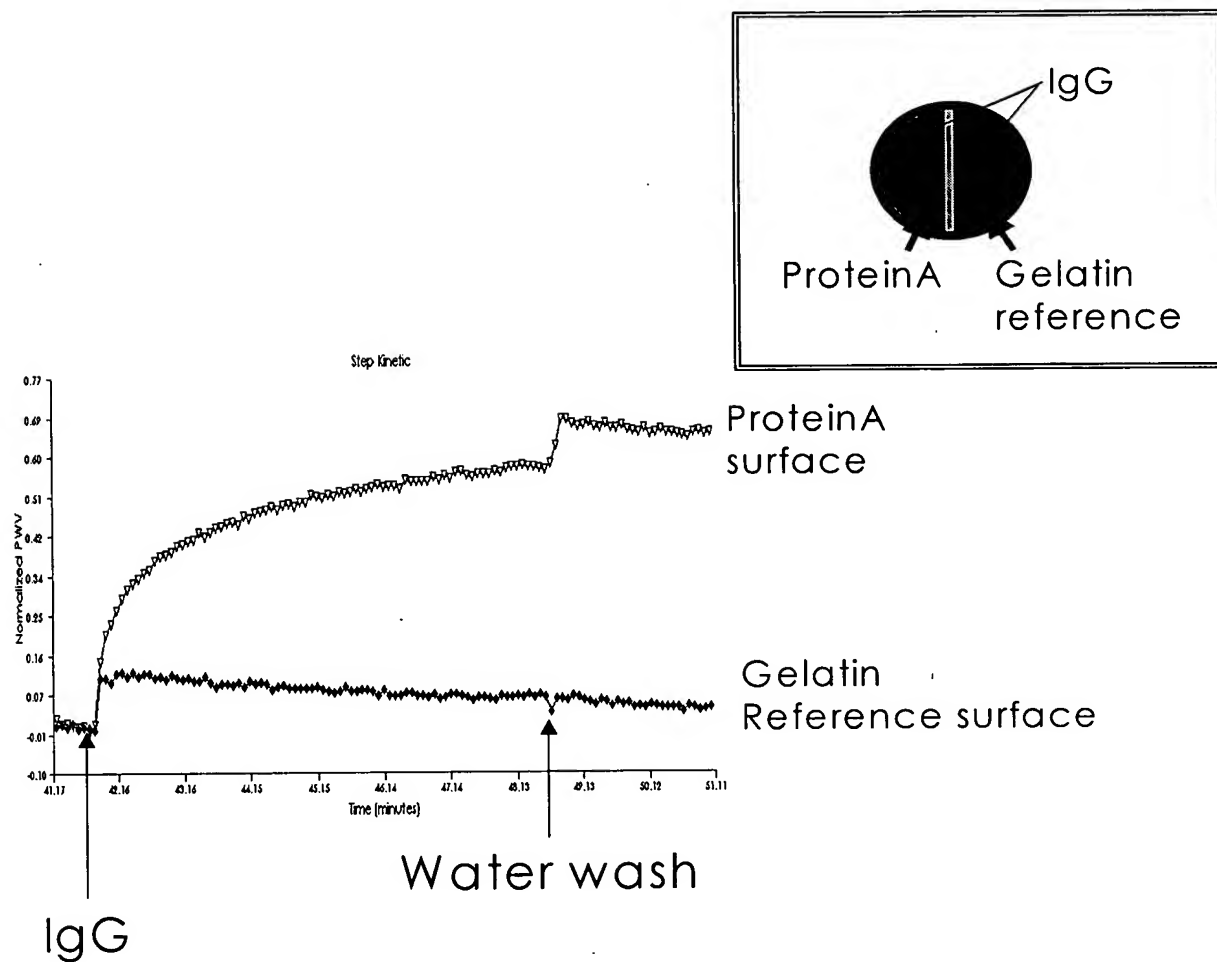


Figure 18

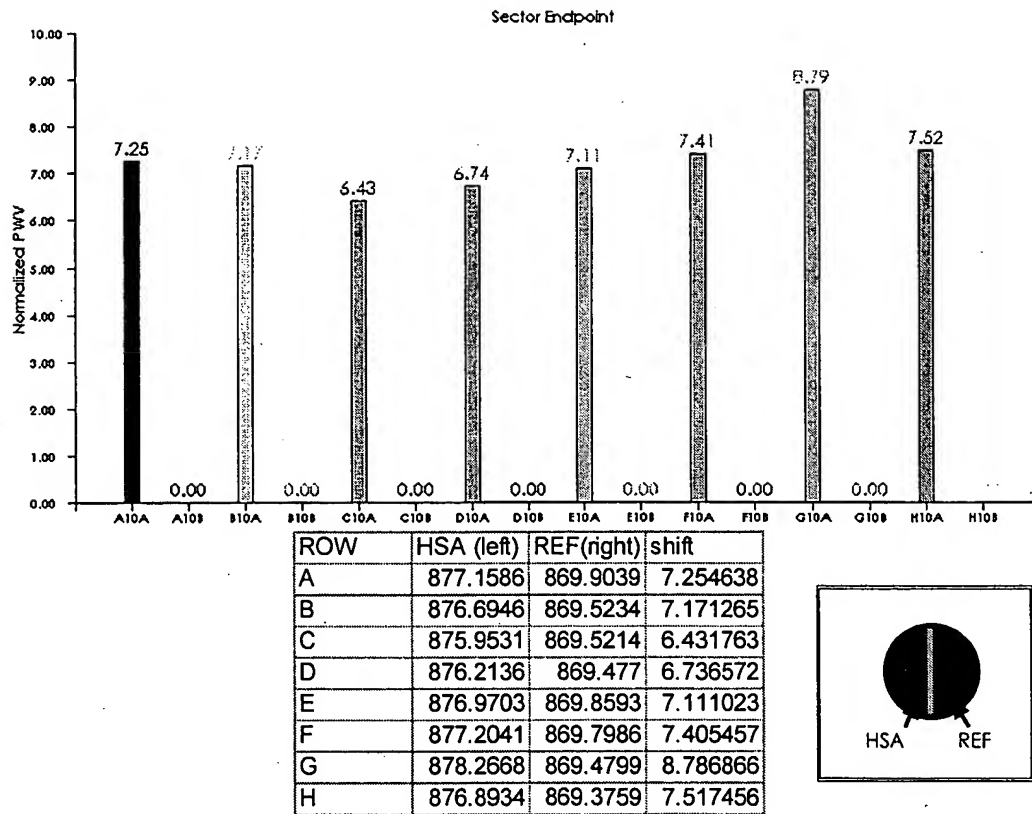


Figure 19

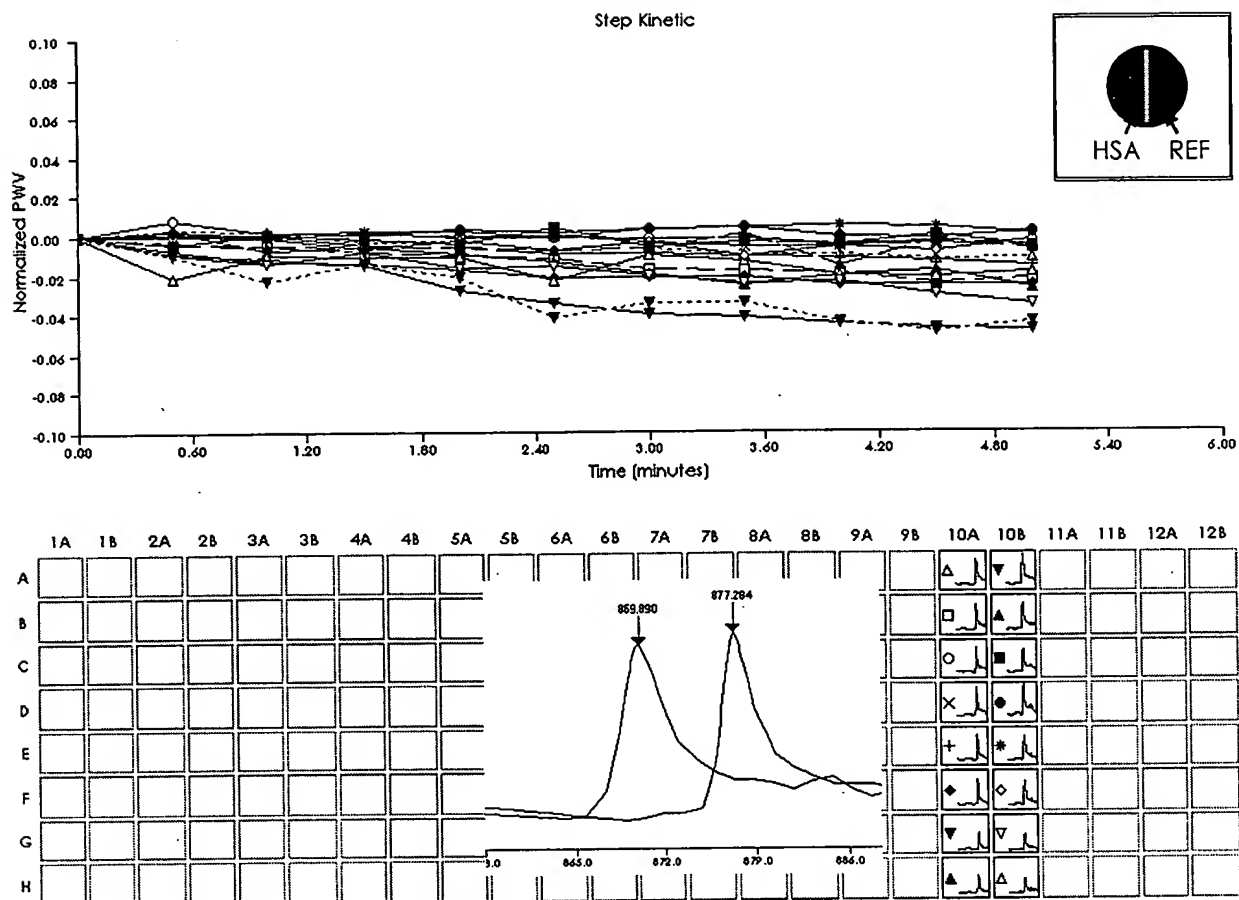


Figure 20

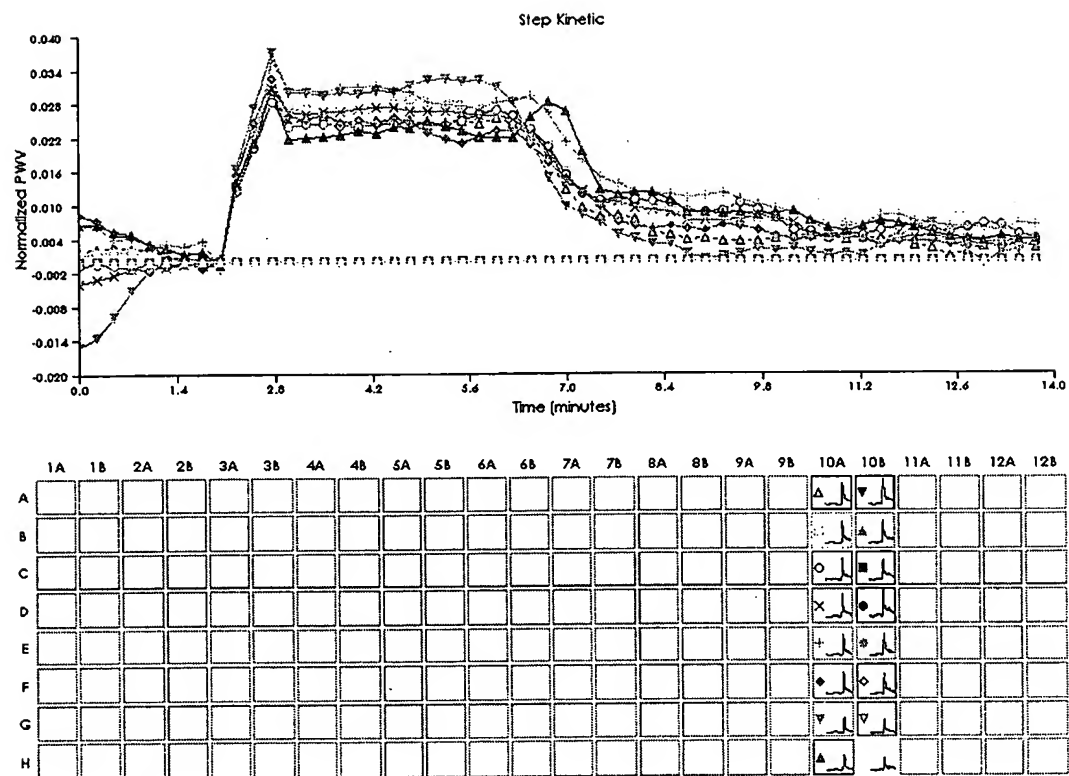
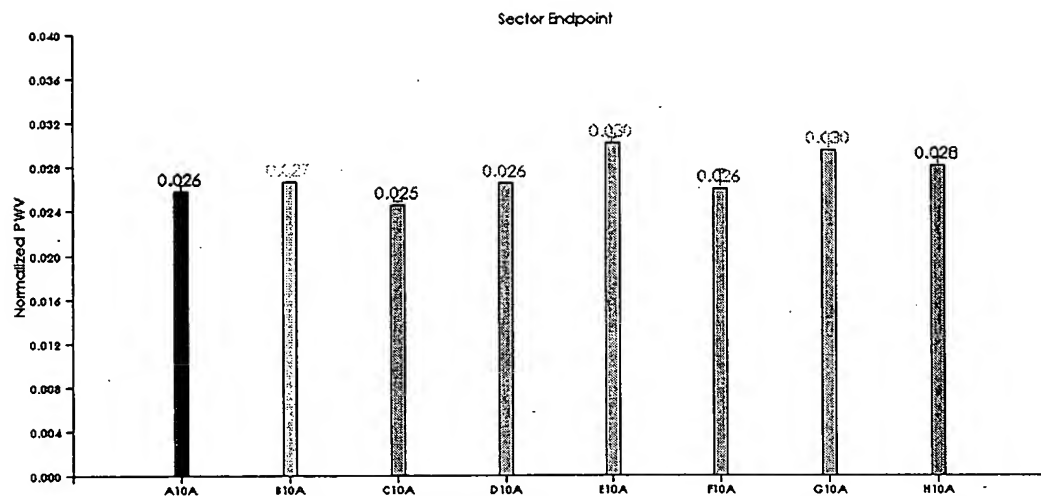


Figure 21



Row	warfarin self ref	AVG	StDev	warfarin mean shift	AVG	StDev
A	0.025778	0.027164	0.001939	0.024587	0.027164	0.002018
B	0.026651			0.026735		
C	0.024509			0.027587		
D	0.026488			0.028656		
E	0.030106			0.025142		
F	0.026043			0.02608		
G	0.029543			0.029414		
H	0.028194			0.029108		

Figure 22